What is claimed is:

1   A wireless LAN system comprising:

   a plurality of communications networks connected to
5   each other;

   wireless base stations for periodically transmitting a
signal within a wireless cell, at least one of said
wireless base stations being disposed in each of said
networks;

10   a mobile terminal for transmitting, when newly
receiving said signal, a belonging request to a wireless
base station which has transmitted said signal and
connecting, when receiving permission for belonging from
said wireless base station, said mobile terminal to said
15   wireless base station, thus conducing communications; and

      agents each for distributing an agent advertisement
onto said communications networks and managing, after
said mobile terminal receives said agent information, the
location of said mobile terminal based on movement
20   information transmitted from said mobile terminal, each
of agents being disposed in each of said communications
networks;

      each of said base stations storing said agent
information based on said agent advertisement distributed
25   onto said communications network, receiving a belonging

request from said mobile terminal, and transmitting, when

belonging of said mobile terminal is permitted, said

agent information to said mobile terminal to be stored,

together with said permission for belonging.

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2   The system defined in Claim 1, wherein said agent

information comprises said agent advertisement.

3   The system defined in Claim 2, wherein said

10   wireless base station comprises:

    an agent advertisement filtering circuit for filtering

signals on said communications networks and then

extracting said agent advertisement;

    an agent advertisement memory for storing an agent

15   advertisement output from said agent advertisement

filtering circuit;

    a cable network interface circuit for monitoring an

agent advertisement distributed on said communications

networks and outputting said signals on said

20   communications networks into said agent advertisement

filtering circuit;

    a wireless transmission/reception circuit for being an

interface circuit that connects said wireless base

station to said mobile terminal by wireless;

25   a transmission/reception switching circuit for changing

said wireless transmission/reception circuit to a
transmission mode or a reception mode;

an agent advertisement transmission circuit for reading,
when receiving a notice from said mobile terminal saying
that a belonging request has been received, said agent
advertisement from said agent advertisement memory, and
then transmitting said notice to said mobile terminal via
said wireless transmission/reception circuit and via said
transmission/reception switching circuit; and

a terminal belonging management circuit for notifying,
when detecting receiving a belonging request from said
mobile terminal, said agent advertisement transmission
circuit of the reception.

4   The system defined in Claim 1, wherein said agent
information contains at least an IP address of said agent.

5   The system defined in Claim 4, wherein said
wireless base station comprises:

a memory for storing said agent information set via
said communications networks using a SNMP;

a cable network interface circuit for outputting said
agent information received, to said memory;

a wireless transmission/reception circuit being an
interface circuit that connects said wireless base

station to said mobile terminal by wireless;

a transmission/reception switching circuit for switching said wireless transmission/reception circuit to a transmission mode or a reception mode;

5   a transmission circuit for reading, when receiving a notice from a mobile terminal saying that a belonging request has been received, said agent advertisement from said memory, and then transmitting said notice to said mobile terminal via said wireless transmission/reception
10   circuit and via said transmission/reception switching circuit; and

a terminal belonging management circuit for notifying, when detecting receiving a belonging request from said mobile terminal, said transmission circuit of the
15   reception.

6   The system defined in Claim 1, wherein said mobile terminal comprises:

a wireless transmission/reception circuit being an
20   interface circuit that connects said mobile terminal to said wireless base stations by wireless;

a transmission/reception switching circuit being a circuit that switches said wireless transmission/reception circuit to a wireless transmission
25   mode or a wireless reception mode;

a belonging processing circuit for transmitting, when receiving a notice saying that signals periodically transmitted from a wireless base station have been detected, a belonging request to said wireless base station via said wireless transmission/reception circuit and via said transmission/reception switching circuit; and

a base station decision circuit being a circuit that detects signals periodically transmitted from a wireless base station belonging to a self station, said base station detection circuit judging, when said signals are not detected, that said self station has moved outside the radio cell of said wireless base station and notifying, when signals periodically transmitted from other wireless base station are detected, said belonging processing circuit of the detection.

7   The system defined in Claim 6, wherein said mobile terminal comprises:

an agent connection processing circuit for transmitting, when receiving a notice saying that reception of said agent information has been detected, a movement notice for said agent to a wireless base station via said wireless transmission/reception circuit and via said transmission/reception switching circuit; and

an agent advertisement reception circuit being a circuit that detects reception of said agent information, said agent advertisement reception circuit notifying, when detecting reception of said agent information, said

5 agent connection processing circuit of the detection, and outputting a request for changing the network setting of a terminal connected to said mobile terminal based on said agent information, to a network setting changing circuit of said terminal.

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8   A method of controlling a wireless LAN system, said wireless LAN system including a plurality of communications networks connected to each other; base stations communications for periodically sending signals

15 within a wireless cell, at least one of said base stations being disposed in each of networks; a mobile terminal for transmitting, when newly receiving said signals, a belonging request to a base station which has sent said signals, and connecting, when receiving

20 permission for belonging from said wireless base station, said mobile terminal to said wireless base station, thus conducing communications; and agents each for distributing an agent advertisement onto said communications networks and managing, the location of

25 said mobile terminal based on a movement notice

transmitted from said mobile terminal after said mobile

terminal receives said agent information, each of agents

being disposed in each of said communications networks;

said method comprising the steps of:

5   storing said agent information into each of said base

stations, based on said agent advertisement distributed

on said communications network; and

when each of said wireless base stations receives a

belonging request from said mobile terminal and permits

10   belonging of said mobile terminal, transmitting said

agent information to be stored to said mobile terminal

from each of said wireless base stations, together with

said permission for belonging.

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